

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Original Patent

Patentee: William Carl Slemmer

Patent No.: 5,781,043

Title: DIRECT CURRENT SUM BANDGAP
VOLTAGE COMPARATOR

Issued: July 14, 1998

Atty Dk No.: 93-C-007C2

Reissue Application

Applicant: William Carl Slemmer

Serial No.:

Title: DIRECT CURRENT SUM
BANDGAP VOLTAGE
COMPARATOR

Filing Date: July 14, 2000

Atty Dk No.: 93-C-007C2RE (1678-28)

FIRST REISSUE APPLICATION DECLARATION BY THE INVENTOR

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter that is claimed in patent number 5,781,043, granted July 14, 1998, and for which a reissue patent is sought on the invention entitled:

DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

the specification of which

☒ is attached hereto.

☐ was filed on _____ as reissue application number _____ and was amended on _____ (if applicable). If the filing date, amendment date, or reissue application number are not included when I execute this Declaration, I authorize the below appointed attorney(s) and/or agents(s) to insert the filing date, amendment date, or reissue application number when they become available.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all that apply.)

- ☐ by reason of a defective specification or drawing.
- ☒ by reason of the patentee claiming less than he had the right to claim in the patent.
- ☐ by reason of other errors.

Errors upon which reissue is based are described as follows:

I believe that the limitation "K₁, K₂, and K₃, are constants determined by . . . a transistor length in the first, second, and third current sources, respectively" renders independent claims 1, 3, 13, and 14 overly narrow. Specifically, these constants may be determined by a size of the transistor other than the transistor, *i.e.*, channel, length. For example, one or more of K₁, K₂, and K₃ may be determined by the transistor, *i.e.*, channel, width. Therefore, I have added new independent claims 24 – 27, which omit the "transistor length" limitation.

Because one can describe my invention in terms of a method, I believe that the lack of method claims unduly limits the scope of protection that the '043 patent provides to my invention. Therefore, I have added new method claims 28 – 55.

All errors corrected in this reissue application arose without any deceptive intention on my part.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: LISA K. JORGENSEN, Reg. No. 34,845; THEODORE E. GALANTHAY, Reg. No. 24,122; ROBERT D. MCCUTCHEON, Reg. No. 38,717; and all attorneys associated with Customer Number 000996.

Correspondence Address: Direct all communications about the application to:

Lisa K. Jorgenson
STMicroelectronics, Inc.
1310 Electronics Drive
Carrollton, Texas 75006-5039
Phone: (972) 466-6000
Fax: (972) 466-7044

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or made the subject of an inventor's certificate issued prior to the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country more than one year prior to the filing date of the original U.S. application.

I do not know and do not believe that the claimed invention was ever in public use or on sale in the United States of America more than one year prior to the filing date of the original U.S. application.

I hereby claim the benefit of priority, under 35 U.S.C. § 119 and 35 U.S.C. § 120, of any foreign application(s) for patent or inventor's certificate on which priority was claimed in the above-identified issued patent.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon, or any patent to which this declaration is directed.

William Carl Slemmer
Full Name of Inventor

USA
Citizenship

Residence

Post Office Address (if different from Residence)

Inventor's Signature

Date

CERTIFICATE UNDER 37 C.F.R. § (b)

1008 U.S. PTO
09/616821
07/14/2000

Applicant: William Carl Slemmer

Reissue Application No.: Filed: July 14, 2000

For: DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

STMicroelectronics, Inc., a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation,
partnership, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- A. ☒ An assignment from inventor of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel ____ Frame ____ (copy enclosed).
- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignees as shown below:
1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel ____
Frame ____ or for which a copy thereof is attached.
 2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel ____
Frame ____ or for which a copy thereof is attached.
 3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel ____
Frame ____ or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: _____

Name: Lisa K. Jorgenson

Title: Director of Intellectual Property

Signature: _____

1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379</
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07/14/00

Atty Dk No.: 93-C-007C2

Atty Dk No.: 93-C-007C2RE (1678-28)

Kelly Pedersen
Signature

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TO THE ASSISTANT COMMISSIONER FOR PATENTS:

STMicroelectronics, Inc. (formerly known as SGS-Thomson Microelectronics, Inc.), assignee of U.S. Patent No. 5,781,043, consents to the filing of reissue application No. _____ (or the present application, if filed with the initial application papers) for the reissue of U.S. Patent No. 5,781,043.

STMicroelectronics, Inc.

Lisa K. Jorgenson
Director of Intellectual Property